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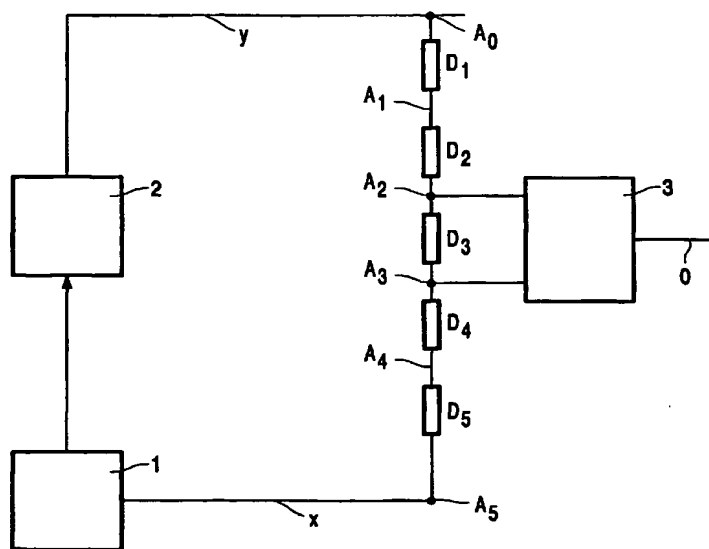
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[Continued on next page]

(54) Title: PULSE GENERATOR



(57) Abstract: A pulse generator comprising a series coupling of delay elements (D1, D2, D3, D4, D5) every two consecutive delay elements (D1, D2, D3, D4, D5) being coupled at a plurality of coupling points (A1, A2, A3, A4), the series coupling of delay elements (D1, D2, D3, D4, D5) having a first end (A0) and a second end (A5) coupled to a first signal (y) and a second signal (x), respectively, the first and second signals (x, y) having a same frequency and being mutually phase-shifted, the pulse generator being characterized in that it further comprises a zero-crossing detector (3) coupled to two mutually different coupling points (A2, A3) for generating an output pulse (O) having a duration determined by a ratio between a number of delay elements between the two different coupling points and a total delay of the series coupling of delay elements.

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**Declaration under Rule 4.17:**

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE,

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# INTERNATIONAL SEARCH REPORT

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H03K5/00 H03K5/156

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01R G06F H03K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 838 178 A (MARBOT ROLAND) 17 November 1998 (1998-11-17) cited in the application	1-5
Y	column 2, line 55-60 column 3, line 31-34 column 4, line 12-14 column 5, line 29-36 figures 1,3,4	6
Y	US 5 537 068 A (KONNO KATSUSHI) 16 July 1996 (1996-07-16)	6
A	column 10, line 54 -column 11, line 21 column 12, line 15-30 figures 22,23	1-5

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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